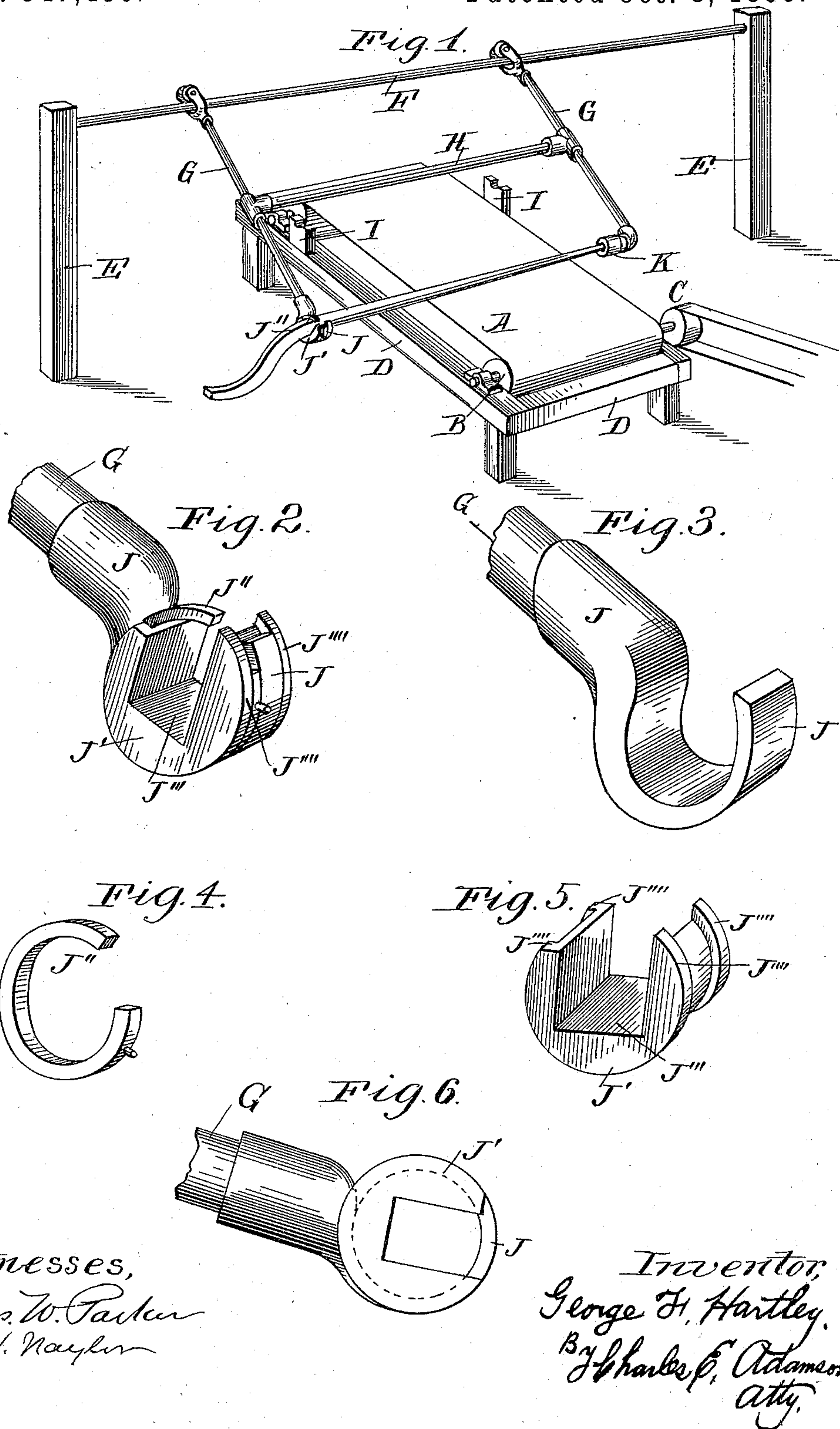


(No Model.)

G. F. HARTLEY.
SANDPAPERING MACHINE.

No. 547,430.

Patented Oct. 8, 1895.



UNITED STATES PATENT OFFICE.

GEORGE F. HARTLEY, OF MUNCIE, INDIANA, ASSIGNOR TO J. H. SMITH & CO.,
OF SAME PLACE.

SANDPAPERING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 547,430, dated October 8, 1895.

Application filed July 24, 1895. Serial No. 557,040. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. HARTLEY, a citizen of the United States, residing at Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Sandpapering-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in sandpapering-machines that are used for such work as sanding vehicle-poles, and it is for this especial work that my machine is peculiarly adapted.

The objects of my invention are to construct a machine that is simple and durable and that will be easily operated. I attain these objects by the mechanism illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of my machine with a carriage-pole in position to be operated upon. The other five views are all details of the pole holding and revolving mechanism.

Similar letters refer to similar parts throughout the several views.

The sandpapering part of my invention consists of an ordinary sand-belt A, which is operated over two rollers B B, one of which is provided with a drive-pulley C, and all of which are secured on and to a framework D, all as shown in Fig. 1.

At each side of the frame D are located two upright posts E E, to which are secured a rod or trolley-pole F. The pole-supporting frame, consisting of two end bars G G and a cross-bar H, is secured to and made to travel on the said trolley-rod by small wheels, located at the upper ends of each of the end bars G, the said wheels made of a shape to fit on and work freely on the said rod, all as shown in Fig. 1. The lower ends of the bar G G are provided with mechanism for holding the pole while it is being sanded and finished.

When a pole is not in the supporting-frame, the frame rests in an inclined position by the cross-rod H resting on the two supporting-blocks I I. One of the bars G is provided at

its lower end with a clamp J and hub J' for securing the butt or large end of the pole while it is being operated upon. The clamp consists of a casing which is secured to the lower end of one of the rods G and formed up so as to encircle the hub J' a little more than half-way around it, allowing the said hub room to revolve freely. Around the said hub is a narrow band J'', which works parallel with and against one edge of the clamp J. (Most clearly shown in Figs. 1 and 2.) The hub J' is made with a slot or recess J''' in it and each end having a flange J'''' to prevent it from working edgewise in the said clamp and to hold the rim J'' in position. To the lower end of the bar G, on the farther side of the frame, is secured a socket K, in which the small or tip end of the pole is inserted when it is placed in position to be operated upon. This socket is large enough to allow the pole-tip to turn freely in it.

When a pole is to be sandpapered, the tip end is inserted in the socket K. Then the frame is raised up so the pole will not touch the sand-belt until after the butt-end of the pole is fastened in the hub J'. The pole fits in the square slot or recess J''' in the hub and the band J'' is given a partial turn, so as to throw it over the opening in the hub, (see Fig. 2,) thereby preventing the pole from coming out of the hub while it is being operated upon. In operating on the pole it is revolved and moved back and forth over the sand-belt, the hub J' allowing it to turn freely, and the wheels in the upper end of the bars G G, working on the rod F, allow the frame to be easily moved from side to side.

Having thus described my invention, I claim the following and desire to secure the same by Letters Patent:

1. In a sand papering machine, the combination with a sand belt supporting frame carrying a movable sand belt, of a trolley pole supported above the belt and transversely thereto, a supporting frame for the work slidably secured to the trolley pole and swinging therefrom and a block on the sand belt frame adapted to support the free end of the working supporting frame, substantially as described.

2. In a sand papering machine, the combination with a sand belt supporting frame carrying a movable sand belt, of a trolley pole supported above the belt and transversely thereto, a work supporting frame slidingly secured to the trolley pole and swinging therefrom, consisting of end bars having work supporting devices on their free ends and a cross bar, and a block on the sand belt frame on which the cross bar is adapted to rest, substantially as described.

3. In a sand papering machine, the combination with a sand belt supporting frame carrying a movable sand belt, of a trolley pole supported above the belt and transversely thereto, a work supporting frame slidingly secured to the trolley pole and swinging therefrom, and means for supporting the free end of the frame out of contact with the sand belt when the work has been removed, substantially as described.

4. In a pole-holding frame for sand-papering machine, the revolving clamping hub J', arranged on the said frame, the said hub held loosely within the clamp J, and a rim J''

partly encircling the said hub J', all as and for the purpose set forth.

5. In a sand papering machine, substantially as described, the combination with the work supporting frame, of a clamp on the end of the frame, a hub within the clamp adapted to revolve therein, annular flanges on the opposite ends of the hub and beyond the sides of the clamp, and means for securing the work to the hub, substantially as described.

6. In a sand papering machine, substantially as described, the combination with the work supporting frame, of a clamp on the end of the frame, a hub within the clamp adapted to revolve therein and provided with a recess, annular flanges on the opposite ends of the hub and beyond the sides of the clamp, and means for securing the work in the recess of the hub, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE F. HARTLEY.

Witnesses:

CHARLES LUTZ,
JACOB STIFFLER.